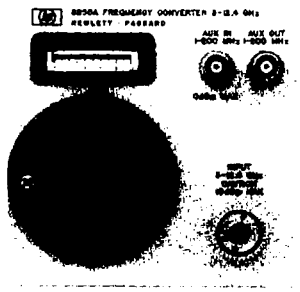
ELECTRONIC COUNTERS

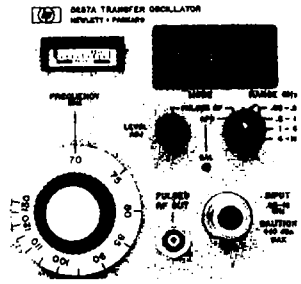
Plug-Ins for 5245L/M, 5246L, 5248L/M & 5345A

Models 5253B—5262A

The 5245 series of plug-ins adds greatly to the versatility of the 5245 series of plug-in counters. In addition, these plug-ins enhance the measurement capability of the 5345A Electronic Counter and the 5360A Computing Counter by the use of plug-in adapters which provide an interface between the plug-in and the 5345A and 5360A mainframes. A compatibility summary for presently available plug-ins is shown below, followed by brief descriptions of the individual plug-ins. Refer to the 5245 series data sheet for complete details and specifications for all the plug-ins.



5253B



5262A

Plug-in compatibility summary

5345A compatibility (using 10590A plug-in adapter): all except the 5264A.
5360A compatibility (using 10536A plug-in adapter): all except the 5262A, 5264A, 5265A, and 5267A.
5245L/M compatibility: all.
5248L/M compatibility: all.
5246L compatibility; all except the 5264A.

Specifications

5253B Heterodyne converter — $1350

Frequency range: 50 MHz to 512 MHz.
Sensitivity: −13 dBm to +13 dBm.
Mixing frequencies: 50 to 500 MHz in 10 MHz steps.
Input coupling: ac.
Accuracy: maintains counter accuracy.
Input impedance: 50Ω.

5254C Heterodyne converter — $2000

Frequency range: 150 MHz to 3 GHz.
Sensitivity: −13 dBm to + 13 dBm.
Mixing frequencies: 0.15 to 3 GHz in 50 MHz steps.
Input coupling: ac.
Accuracy: maintains counter accuracy.
Input impedance: 50Ω.
Auxiliary outputs: 1 MHz–50 MHz.

5255A Heterodyne converter — $2750

Frequency range: 3 GHz to 12.4 GHz.
Sensitivity: −7 dBm to + dBm.
Mixing frequencies: 2.8 to 12.4 GHz in 200 MHz steps.
Input coupling: dc.
Accuracy: maintains counter accuracy.
Input impedance: 50Ω.
Auxiliary input: 1 MHz–200 MHz at 5 mV sensitivity.
Auxiliary output: 1 MHz–200 MHz.

5256A Heterodyne converter — $3225

Frequency range: 8 GHz to 18 GHz.
Sensitivity: −7 dBm to +10 dBm.
Mixing frequencies: 8 to 18 GHz in 200 MHz steps.
Input coupling: dc.
Accuracy: maintains counter accuracy.
Input impedance: 50Ω
Auxiliary input: 1 MHz–200 MHz at 5 mV sensitivity.
Auxiliary output: 1 MHz–200 MHz.

5257A Transfer oscillator — $3500

Frequency range: 50 MHz to 18 GHz.
Input signal: CW, pulsed RF or FM modulated.
Sensitivity: −7 dBm, 50 MHz to 15 GHz; −4 dBm, 15 GHz to 18 GHz.
APC lock range: approximately ±0.2% of input frequency.
Pulse carrier frequency measurements: minimum pulse width: 0.5 μs. Minimum repetition rate: 10 pulses per second.
Input impedance: 50Ω.
VFO stability: typically 1 x 10^{-7} per minute after 2 hours.

5262A Time interval unit — $800

Range: 1μs to 10^8 s
Resolution: 0.1 μs.
Input sensitivity: 100 mV rms.
Start-Stop: independent or common channels.
Trigger slope: positive or negative on Start and Stop channels, independently selected.
Trigger amplitude: both channels adjustable from −250 to + 250 V peak.
Input repetition rate: better than 2 MHz.
Input impedance: from 10 kΩ/80 pF at x0.1 multiplier setting to 10 MΩ/20 pF at x 100 setting.